

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for controlling movement of an optical pick-up unit, comprising the steps of:

a) performing a focus search operation on an optical disc and at the same time determining whether there is a reflection signal from the optical disc;

b) after performing the focus search operation, moving the optical pick-up unit toward a predetermined beginning point of the optical disc based on the result of the determining step; and

c) monitoring a level of an RF signal generated from the reflection signal from the optical disc and determining the optical pick-up unit has moved to the beginning point of the optical disc when the level of the RF signal is lower than a predetermined level, while the optical pick-up unit is in motion,

wherein the beginning point of the optical disc is an innermost data track of the optical disc.

2. (Original) The method as set forth in claim 1, further comprising the step of:

d) if the optical pick-up unit has moved to the beginning point of the optical disc, performing a servo-tuning operation.

3. (Cancelled)

4. (Currently Amended) The method as set forth in ~~claim 3~~claim 1, wherein the optical disc is a DVD (digital versatile disc).

5. (Original) The method as set forth in claim 1, wherein the step (b) is executed when a focus drive signal is held.

6. (Previously Presented) The method as set forth in claim 1, wherein the step (c) determines whether the optical pick-up unit has moved to the beginning point of the optical disc based on a PI (Pull In Error) signal as the RF signal generated by an RF unit.

7. (Original) The method as set forth in claim 1, wherein the step (a) includes the steps of:

a1) performing a focus search operation at a beginning point of the optical pick-up unit in association with the optical disc when the optical disc is inserted into an optical disc apparatus, and at the same time determining whether there is a reflection signal from the optical disc;

a2) moving the optical pick-up unit by a prescribed distance on the basis of the result of the step (a1); and

a3) performing a focus search operation for the optical disc at a position to which the optical pick-up unit moves, and at the same time redetermining whether there is a reflection signal from the optical disc.

8. (Original) The method as set forth in claim 7, wherein the step (a2) includes the steps of:

a21) outputting a command for moving the optical pick-up unit by a prescribed distance, and at the same time setting up a target number, corresponding to the prescribed distance, of output pulses of a driver for moving the optical pick-up unit;

a22) moving the optical pick-up unit, and detecting a counted value of the driver's output pulses generated while the optical pick-up unit is in motion; and

a23) determining whether the optical pick-up unit has moved by the prescribed distance by comparing the counted value with the target value of the driver's output pulses.

9. (Original) The method as set forth in claim 1, further comprising the step of:

(e) discriminating a type of the optical disc based on the reflection signal.

10. (Original) The method as set forth in claim 9, wherein the step (e) discriminates whether the optical disc is a 12cm-sized disc or an 8cm-sized disc.

11-15. (Cancelled)

16. (Currently Amended) A device for controlling movement of an optical pick-up unit, comprising:

first means for performing a focus search operation on an optical disc the condition and at the same time determining whether there is a reflection signal from the optical disc;

after performing the focus search operation, second means for moving the optical pick-up unit toward a predetermined beginning point of the optical disc based on the determining result; and

third means for monitoring a level of an RF signal generated from the reflection signal from the optical disc and determining the optical pick-up unit has moved to the beginning point of the optical disc when the level of the RF signal is lower than a predetermined level, while the optical pick-up unit is in motion,

wherein the beginning point of the optical disc is an innermost data track of the optical disc.

17. (Original) The device as set forth in claim 16, further comprising:

fourth means for performing a servo-tuning operation if the optical pick-up unit has moved to the beginning point of the optical disc.

18. (Cancelled)

19. (Currently Amended) The device as set forth in ~~claim 18~~claim 16, wherein the optical disc is a DVD (digital versatile disc).

20. (Previously Presented) The device as set forth in claim 16, wherein the third means determines whether the optical pick-up unit has moved to the beginning point of the optical disc based on a PI (Pull In Error) signal as the RF signal generated by an RF unit.

21. (Original) The device as set forth in claim 16, wherein the first means performs a focus search operation at a beginning point of the optical pick-up unit in association with the optical disc when the optical disc is inserted into an optical disc apparatus, and at the same time determines whether there is a reflection signal from the optical disc; moves the optical pick-up unit by a prescribed distance; and performs a focus search operation for the optical disc at a position to which the optical pick-up unit moves, and at the same time redetermines whether there is a reflection signal from the optical disc.

22. (Previously Presented) The device as set forth in claim 16, further comprising:
fifth means for discriminating a type of the optical disc based on the reflection signal.

23. (Original) The device as set forth in claim 22, wherein the fifth means discriminates whether the optical disc is a 12cm-sized disc or an 8cm-sized disc.

24-28. (Cancelled)